

Reny® 1501AH

Polyarylamide

Mitsubishi Engineering-Plastics Corp

Message:

Reny® 1501AH is a Polyarylamide (PARA) material filled with 30% glass fiber. It is available in Asia Pacific, Europe, or North America for injection molding. Important attributes of Reny® 1501AH are:

Flame Rated

Flame Retardant

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Additive		Flame Retardant		
Features		Flame Retardant		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.56	--	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (275°C/2.16 kg)	20	--	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (275°C/2.16 kg)	13.8	--	cm ³ /10min	ISO 1133
Molding Shrinkage	0.57	--	%	
Water Absorption				ISO 62
Saturation, 23°C	0.19	--	%	
Equilibrium, 23°C, 50% RH	1.2	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	13300	11700	MPa	ISO 527-2
Tensile Stress (Break)	162	135	MPa	ISO 527-2
Tensile Strain (Break)	1.6	1.6	%	ISO 527-2
Flexural Modulus	12100	11800	MPa	ISO 178
Flexural Stress	251	222	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.3	5.5	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	37	29	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	237	232	°C	ISO 75-2/B
1.8 MPa, Unannealed	220	211	°C	ISO 75-2/A
CLTE				ISO 11359-2
Flow	2.0E-5	--	cm/cm/°C	

Transverse	5.0E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	8.0E+14	4.0E+14	ohms	IEC 60093
Volume Resistivity	1.0E+16	1.0E+15	ohms·cm	IEC 60093
Electric Strength				IEC 60243-1
1.00 mm	29	26	kV/mm	
2.00 mm	22	19	kV/mm	
Relative Permittivity				IEC 60250
100 Hz	--	5.00		
1 MHz	--	4.00		
Dissipation Factor				IEC 60250
100 Hz	--	0.016		
1 MHz	--	0.014		
Comparative Tracking Index	450	400	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.60 mm)	V-0	--		UL 94
Injection	Dry	Unit		
Drying Temperature				
A	120		°C	
B	80.0		°C	
Drying Time				
A	> 3.0		hr	
B	> 12		hr	
Rear Temperature	260		°C	
Middle Temperature	265		°C	
Front Temperature	270		°C	
Nozzle Temperature	270		°C	
Mold Temperature	120 to 145		°C	
Injection Pressure	20.0 to 150		MPa	
Injection Rate	Moderate-Fast			
Screw Speed	60 to 150		rpm	

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